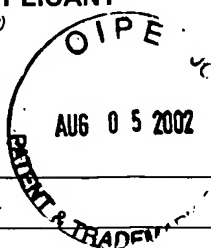


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/066551
Filing Date	January 31, 2002
First Named Inventor	Apicella, Michael
Group Art Unit	1645
Examiner Name	Unknown

Sheet 1 of 3

Attorney Docket No: 00875.045US1

RECEIVED
AUG 07 2002

TECH CENTER 1600/2900

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
--------------------	---------------------	------------------	---	-------	----------	----------------------------

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
--------------------	---------------------	------------------	---	-------	----------	----------------

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>DB</i>		CARON, EMMANUELLE, et al. "Identification of Two Distinct Mechanisms of Phagocytosis Controlled by Different Rho GTPases", <u>Science</u> , vol. 282, (November 27, 1998), 1717-1721	
		CHRISTODOULIDES, MYRON, et al. "Interaction of primary human endometrial cells with <i>Neisseria gonorrhoeae</i> expressing green fluorescent protein", <u>Molecular Microbiology</u> , vol. 35, (2000), 32-43	
		COOPER, NEIL, "Complement evasion strategies of microorganisms", <u>Immunology Today</u> , vol. 12, no. 9, (1991), 327-331	
		DE LA PAZ, HELEN, et al. "Effect of sialylation of lipopolysaccharide of <i>Neisseria gonorrhoeae</i> on recognition and complement-mediated killing by monoclonal antibodies directed against different outer-membrane antigens", <u>Microbiology</u> , vol. 141, no. 4, (April 1995), 913-920	
		DENSEN, PETER, et al. "Dissemination of Gonococcal Infection is Associated with Delayed Stimulation of Complement-Dependent Neutrophil Chemotaxis In Vitro", <u>Infection and Immunity</u> , vol. 38, no. 2, (November 1982), 563-572	
		DENSEN, PETER, "Interaction of Complement with <i>Neisseria meningitidis</i> and <i>Neisseria gonorrhoeae</i> ", <u>Clinical Microbiology Reviews</u> , vol. 2, (April 1989), S11-S17	
		EDWARDS, J.L., et al. " <i>Neisseria gonorrhoeae</i> Elicits Membrane Ruffling and Cytoskeletal Rearrangements upon Infection of Primary Human Endocervical and Ectocervical Cells", <u>Infection and Immunity</u> , 68, (2000), 5354-5363	
		FRANK, MICHAEL, et al. "Complement Interactions and Functions, The role of complement in inflammation and phagocytosis", <u>Immunology Today</u> , vol. 12, no. 9, (1991), 322-326	
		HARVEY, HILLERY, et al. "Ultrastructural Analysis of Primary Human Urethral Epithelial Cell Cultures Infected with <i>Neisseria gonorrhoeae</i> ", <u>Infection and Immunity</u> , vol. 65, no. 6, (June 1997), 2420-2427	
		HAYASHI, TOMOKO, et al. "Binding of the 68-Kilodalton Protein of <i>Mycobacterium avium</i> to $\alpha_v\beta_3$ on Human Monocyte-Derived Macrophages Enhances Complement Receptor Type 3 Expression", <u>Infection and Immunity</u> , vol. 65, no. 4, (April 1997), 1211-1216	
<i>DB</i>		HUSSAIN, L.A., et al. "Investigation of the complement receptor 3 (CD11b/CD18) in human rectal epithelium", <u>Clinical and Experimental</u>	

EXAMINER

DATE CONSIDERED

7/14/03

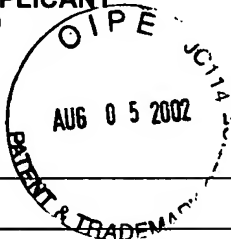
Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/066551
Filing Date	January 31, 2002
First Named Inventor	Apicella, Michael
Group Art Unit	1645
Examiner Name	Unknown

RECEIVED
AUG 07 2002
TECH CENTER 1600/2900

Sheet 2 of 3

Attorney Docket No: 00875.045US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Immunology, vol. 102, (1995),384-388	
		HYNES, RICHARD, "Integrins: A Family of Cell Surface Receptors", <u>Cell</u> , vol. 48, no.4, (February 27, 1987),549-554	
		INGALLS, ROBIN, et al. "The CD11/CD18 Integrins: Characterization of Three Novel LPS Signaling Receptors", <u>Prog. Clin. Biol. Res.</u> , vol. 397, (1998),107-117	
		JARVIS, GARY, et al. "Invasion of Human Mucosal Epithelial Cells by <i>Neisseria gonorrhoeae</i> Upregulates Expression on Inter cellular Adhesion Molecule 1 (ICAM-1)", <u>Infection and Immunity</u> , vol. 67, no. 3, (March 1999),1149-1156	✓
		JERSE, ANN, et al. "Adhesion and invasion by the pathogenic neisseria", <u>Trends in Microbiology</u> , vol. 5, no. 6, (June 1997),217-221	✓
		JONES, J.L. et al. "Integrins: a role as cell signalling molecules", <u>Journal of Clinical Pathology: Molecular Pathology</u> , vol. 52, (1999),208-213	
		JONES, SAMUEL, et al. "Two Signaling Mechanisms for Activation of $\alpha_M\beta_2$ Avidity in Polymorphonuclear Neutrophils", <u>Journal of Biological Chemistry</u> , vol. 273, no. 17, (April 24, 1998),10556-10566	
		KISHIMOTO, TAKASHI, et al. "The Leukocyte Integrins", <u>Advances in Immunology</u> , vol. 46, (1989),149-182	
		KRAGSBJERG, P., et al. "The effects of live <i>Neisseria meningitidis</i> and tumour necrosis factor- α on neutrophil oxidative burst and β_2 -integrin expression", <u>APMIS</u> , vol. 108, (2000),276-282	
		MCQUILLEN, DANIEL, et al. "Complement Processing and Immunoglobulin Binding to <i>Neisseria gonorrhoeae</i> Determined In Vitro Simulates In Vivo Effects", <u>The Journal of Infectious Diseases</u> , vol. 179, no. 1, (January 1999),124-135	
		MESRI, MEHDI, et al. "Dual Regulation of Ligand Binding by CD11b I Domain", <u>The Journal of Biological Chemistry</u> , vol. 273, no. 2, (January 9, 1998),744-748	
		MEYER, THOMAS, "Pathogenic Neisseriae: Complexity of Pathogen - Host Cell Interplay", <u>Clinical Infectious Diseases</u> , vol. 28, no. 3, (March 1999),433-441	✓
		MOSSER, DAVID, et al. "The third component of complement (C3) is responsible for the intracellular survival of <i>Leishmania major</i> ", <u>Nature</u> , vol. 327, no. 6210, (May 28, 1987),329-331	
		NASSIF, XAVIER, et al. "Interaction of Pathogenic Neisseriae with Nonphagocytic Cells", <u>Clinical Microbiology Reviews</u> , (July 1995),376-388	
		NASSIF, XAVIER, et al. "Interactions of pathogenic <i>Neisseria</i> with host cells. Is it possible to assemble the puzzle?", <u>Molecular Microbiology</u> , vol. 32, no. 6, (June 1999),1124-1132	
		NAUMANN, MICHAEL, et al. "Host cell interactions and signalling with <i>Neisseria gonorrhoeae</i> ", <u>Curr. Opin. Microbiol.</u> , vol. 2, (1999),62-70	
		RAM, SANJAY, et al. "A Novel Sialic Acid Binding Site on Factor H Mediates Serum Resistance of Sialylated <i>Neisseria gonorrhoeae</i> ", <u>Journal of Experimental Medicine</u> , vol. 187, no. 5, (March 2, 1998),743-752	
		RAM, S., et al. "The contrasting mechanisms of serum resistance of <i>Neisseria</i>	

EXAMINER

Radma B. B. B.

DATE CONSIDERED

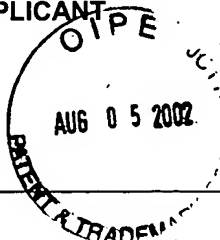
1/14/02

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Applicati n Number	10/066551
Filing Date	January 31, 2002
First Named Inventor	Apicella, Michael
Group Art Unit	1645
Examiner Name	Unknown

RECEIVED
AUG 07 2002
TECH CENTER 1600/2900

Sheet 3 of 3

Attorney Docket No: 00875.045US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		<u>gonorrhoeae and group B Neisseria meningitidis</u> ", <u>Molecular Immunology</u> , vol. 36, no. 13-14, (1999),915-928	
		VAN KOOYK, YVETTE, et al. ,"The Actin Cytoskeleton Regulates LFA-1 Ligand Binding through Avidity Rather than Affinity Changes", <u>The Journal of Biological Chemistry</u> , vol. 274, no. 38, (September 17, 1999),26869-26877	
		VOGEL, ULRICH, et al. ,"Mechanisms of neisserial serum resistance", <u>Molecular Microbiology</u> , vol. 32, no. 6, (June 1999),1133-1139	
		WURZNER, REINHARD, "Evasion of pathogens by avoiding recognition or eradication by complement, in part via molecular mimicry", <u>Molecular Immunology</u> , vol. 36, (1999),249-260	

EXAMINER

DATE CONSIDERED

7/14/03

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known

Application Number	10/066551
Filing Date	January 31, 2002
First Named Inventor	Apicella, Michael
Group Art Unit	1645
Examiner Name	Unknown

RECEIVED

MAR 12 2003

TECH CENTER 1600/2900

Sheet 1

Attorney Docket No: 875.045US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
--------------------	---------------------	------------------	---	-------	----------	----------------------------

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
	WO-00/71725	11/30/2000	Giuliani, M. M., et al	C12 N	15/31	
	WO-98/02547	01/22/1998	Nassif, X , et al	C12 N	15/31	
	WO-99/24578	05/20/1999	Masignani, V. , et al	C12 N	15/31	
	WO-99/57280	11/11/1999	Fraser, C. , et al	C12 N	15/31	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		EDWARDS, J.L. ,et al. , "Complement Receptor Type 3 (CR3) on Primary Cervical Epithelial Cells Serves as a Receptor for Neisseria Gonorrhoeae", <u>Abstracts of the 101st General Meeting of the American Society for Microbiology</u> , Orlando, FL, (May 20-24, 2001), p. 303	

EXAMINER

Radwa Berber

DATE CONSIDERED

7/14/03

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached